

ABSTRACT OF THE DISCLOSURE

The present invention provides methods which use 4-amino-azepan-3-one protease inhibitors of cathepsin S in the treatment of diseases in which cathepsin S is implicated, especially treatment or prevention of autoimmune disease; treatment or prevention of a disease state caused by the formation of atherosclerotic lesions and complications arising therefrom; and diseases requiring inhibition, for therapy, of a class II MHC-restricted immune response, inhibition of an asthmatic response, inhibition of an allergic response, inhibition of immune response against a transplanted organ or tissue, or inhibition of elastase activity in atheroma, and novel compounds for use therewith.

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(54) Title: **PROTEASE INHIBITORS**

(57) Abstract: The present invention provides methods which use 4-amino-azepan-3-one protease inhibitors of cathepsin S in the treatment of diseases in which cathepsin S is implicated, especially treatment or prevention of autoimmune disease; treatment or prevention of a disease state caused by the formation of atherosclerotic lesions and complications arising therefrom; and diseases requiring inhibition, for therapy, of a class II MHC-restricted immune response, inhibition of an asthmatic response, inhibition of an allergic response, inhibition of immune response against a transplanted organ or tissue, or inhibition of elastase activity in atheroma, and novel compounds for use therewith.

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